

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
09/695,325		10/25/2000	Michael O. Okoroafor	1555A1 1203		
24959	7590	06/17/2004		EXAMINER		
PPG INDU	STRIES	INC		SERGENT, RABON A		
INTELLEC' ONE PPG P		OPERTY DEPT		ART UNIT	PAPER NUMBER	
PITTSBURG		15272		1711		

DATE MAILED: 06/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
		09/695,32	5	OKOROAFOR ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Rabon Se		1711				
Period fo	The MAILING DATE of this communic	ation appears on the	cover sheet with the o	orrespondence address				
A SH THE   - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply specified above is less than thirty (30) o period for reply is specified above, the maximum state to reply within the set or extended period for reply wereply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION.  f 37 CFR 1.136(a). In no eve nication.  days, a reply within the statu tutory period will apply and wil itl, by statute, cause the appl	nt, however, may a reply be tir tory minimum of thirty (30) day I expire SIX (6) MONTHS from cation to become ABANDONE	nely filed  s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on <u>14 April 2004</u> .						
•	•	b)⊠ This action is ne	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-103 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 59-71 and 75-102 is/are allowed.  Claim(s) 1-4,11,14-29,31-34,36,41-57 and 72-74 is/are rejected.  Claim(s) 5-10,12,13,30,35,37-40,58 and 103 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9)[	The specification is objected to by the	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object	•	•					
11)	Replacement drawing sheet(s) including to The oath or declaration is objected to				).			
Priority (	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Infor	ot(s)  the of References Cited (PTO-892)  the of Draftsperson's Patent Drawing Review (PT  the mation Disclosure Statement(s) (PTO-1449 or Fer No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

Application/Control Number: 09/695,325

Art Unit: 1711

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 14, 2004 has been entered.
- 2. Claims 72-74 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Dependent claims 72-74 are improperly drawn to methods; the claims from which they depend are drawn to photochromic articles.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

Application/Control Number: 09/695,325

Art Unit: 1711

the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-4, 11, 14-16, 19-21, 24-29, 31-34, 36, 41-44, 47-49, and 52-57 are rejected under 35 U.S.C. 102(b) as being anticipated by Cassidy et al. ('103).

Patentees disclose polythiourethane derived from the reaction of a curing agent amine and an isocyanate terminated prepolymer, wherein the prepolymer is derived from the reaction of a polythiol and a polyisocyanate. See abstract, columns 2-4, and columns 9-12.

5. Claims 17, 18, 22, 23, 45, 46, 50, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cassidy et al. (103).

As aforementioned, patentees disclose polythiourethane derived from the reaction of a curing agent amine and an isocyanate terminated prepolymer, wherein the prepolymer is derived from the reaction of a polythiol and a polyisocyanate.

6. Patentees are silent regarding applicants' amines of claims 17, 18, 45, and 46 and the claimed degassing steps of claims 22, 23, 50, and 51. With respect to the former issue, the position is taken that the claimed amines were well known, conventional curing agents for polyurethane prepolymers at the time of invention; therefore, it would have been obvious to utilize them in their art recognized capacity as curing agents within Cassidy et al. With respect to the latter issue, the position is taken that the degassing of polymer forming reactants, prior to their reaction, was a conventional operation at the time of invention. Since it was well known that degassing serves to remove deleterious bubbles from the reactants, the position is taken that it would have been obvious to perform such an operation on the reactants of Cassidy et al.

Application/Control Number: 09/695,325 Page 4

Art Unit: 1711

7. Claims 5-10, 12, 13, 30, 35, 37-40, 58, and 103 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

RABON SÉRÉENT PRIMARY EXAMINER

R. Sergent

June 14, 2004